



	Time Local/	Path Length	Path Width		Number of Persons		nated nage		June 2002
Location Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
Boettion	Dittirutiru	(111100)	(I til tib)	TITTOU	mu	Troporty	Crops	Character of Diorin	

LAKE MICHIGAN

LMZ646 Wind Pt Lt Wi To Winthrop Hbr II

Wind Point to 03 0710CST 0 0 Marine Tstm Wind (G50) Kenosha 0955CST

A line of severe thunderstorms moved east of Racine and Kenosha counties. Powerful northwest winds gusting to 58 knots (67 mph) were noted at the Racine Wastewater Treatment Plant on the Lake Michigan shoreline as the storms initially moved out over the lake, and 50 kt (58 mph) peak gusts out of the southeast were registered at the GLERL site in Kenosha, on the back side of the storms. At this coastal site, sustained winds were 35 kts (40 mph) or higher between 0855 and 0955CST. The southeast backside winds were due to a wake-low which developed over southeast Wisconsin.

LMZ645

North Pt Lt To Wind Pt Wi

North Point Lthouse to Wind Point

10 1950CST

) (

Marine Tstm Wind (G41)

Severe thunderstorms over southeast Wisconsin moved out over the nearshore waters of Lake Michigan east of Milwaukee and

LMZ643

Sheboygan To Pt Washington Wi

3.5 NE Port Washington | 14 3.3 NE Port Washington

1130CST 1133CST

Waterspout

A short-lived waterspout spun up about 1/2 mile out over the nearshore waters of Lake Michigan northeast of Port Washington (Ozaukee Co.). It was observed by a trained spotter who was traveling south along Interstate 43. Scattered thunderstorms developed and moved southeast along a surface trough/shear line that extended northwest to southeast from Lake Winnebago through Ozaukee County to east of Milwaukee. Apparently, a vortex on the shear line was stretched vertically by the updraft tower of a thunderstorm. The width of the waterspout at the water surface was about 10 to 15 yards. No damage was noted.

LMZ645 North Pt Lt To Wind Pt Wi

Milwaukee Harbor to 15 1623CST 0 0 Marine Hail (0.88)

LMZ646 Wind Pt Lt Wi To Winthrop Hbr II

Racine to 15 1627CST 0 0 Marine Hail (0.75) Winthrop Harbor II

Severe thunderstorms packing large hail moved east out over the Lake Michigan waters between the Milwaukee Harbor and

Winthrop Harbor, IL.

LMZ646 Wind Pt Lt Wi To Winthrop Hbr II

Wind Point to 15 1707CST 0 0 Marine Hail (0.75) Winthrop Harbor II

Scattered severe thunderstorms with large hail moved east out over the Lake Michigan waters between Wind Point, WI and

Winthrop Harbor, IL.

WISCONSIN, Southeast

Sauk County Spring Green	03	0415CST	0	0		Hail(0.75)
Dane County Springfield Corners	03	0500CST 0700CST	0	0		Urban/Sml Stream Fld
Dane County Stoughton	03	0540CST	0	0	20K	Lightning
Milwaukee County Milwaukee to Brown Deer	03	0600CST 0800CST	0	0		Urban/Sml Stream Fld
Waukesha County Menomonee Falls	03	0600CST	0	0		Urban/Sml Stream Fld





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Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
WISCONSIN, Southe	<u>east</u>									
Walworth County 2.5 NNE East Troy	03	0640CST			0	0	5K		Thunderstorm Wind (G56)	
Kenosha County Twin Lakes to Kenosha	03	0655CST 0725CST			0	0	75K		Thunderstorm Wind (G56)	
Racine County Burlington to Racine	03	0655CST 0725CST			0	0	200K		Thunderstorm Wind (G58) ^M	
Racine County 5 NW Sturtevant	03	0700CST			0	0	10K		Heavy Rain	
Racine County Sturtevant	03	0709CST			0	0			Funnel Cloud	
Kenosha County Kenosha	03	0715CST			0	0			Hail(0.88)	
Rock County 2 E Avalon	03	0802CST			0	0			Hail(0.75)	
Walworth County 2 SE Fontana	03	0825CST			0	0	10K		Thunderstorm Wind (G56)	
Dane County Fitchburg	03	0830CST			0	0	0.50K		Lightning	
WIZ071>072	Racino 03	e - Kenosha 0855CST 0955CST			0	0			High Wind (G50)	

Three lines of severe thundrestorms moved east-southeast across south-central and southeast Wisconsin. The last line was the strongest of the three. Damaging, straightline winds were the most common type of severe weather, althought some large hail stones were spotted. Brief, torrential downpours accompanied some of the storms, especially in the counties of Dane, Racine and Kensoha. The toppled trees pulled down power lines near Fontana (Walworth Co.), and across much of Racine and Kenosha counties. The Racine Wastewater Treatment Plant registered a peak northwest wind gust of 58 kts (67 mph). In the cities of Sturtevant (Racine Co.) and Racine, 4 vehicles and 2 garages were damaged or destroyed due to felled trees. On another Racine home, the wind blew an old chimney down. At least another 4 homes in Racine had some gutter or siding damage. In Sturtevant, a flaf pole was bend 45 degrees, and a stored pontoon boat was flipped over. A covered wagon in Kansasville (Racine Co.) was damaged when the thunderstorm winds blew it over. Roof shingles were ripped off several homes in the city of Kenosha. One Kenosha home had a large tree fall on its roof, damaging the chimney, gutters, and wood trim. A large yacht was blown off its perch and into a fence near the Lake Michigan shoreline in downtown Kenosha, but sustained only minor damage. Lightning struck an apartment building in Stoughton (Dane Co.), starting a fire that left \$20,000 in damage. In Fitchburg (Dane Co.), lightning struck a home and traveled down a pipe to the basement where a small fire started in a rubbish bin. Rainfall amounts of 1 to 2 inches generated some small stream flooding that pushed water over the roads in Sringfield Corners (Dane Co.). Up to 3.5 inches of rain fell in Menomonee Falls (Waukesha Co.) resulting in urban flooding, which extende east across northern Milwaukee County where 2 to 3 inches fell. Several roads in northern Milwaukee County had water up to 12 to 18 inches deep. Heavy rains in Racine County lead to hydroplaining problems on Interstate 94 where a semitrailer truck jack-knifed and rolled over at about 0730CST.

A wake-low developed over southeastern Wisconsin on the west side of the 3rd line of storms, after it had moved east to over Lake Michigan. The pressure gradient between the thunderstorm-induced mesohigh over Lake Michigan and the wake low in the vicinity of Madison to Whitewater generated a high wind event over the eastern parts of the counties of Racine and Kenosha. Southeast winds gusted to 50 knots (58 mph) at the GLERL observation site on the shore of Lake Michigan in downtown Kenosha at 0900CST, and were equal to or greater than 35 kts (40 mph) betwen 0855 and 0955CST. Numerous trees were pushed down by the high winds, and a greenhouse on the UW-Parkside campus sustained window damage. Gusty southeast winds to 30 to 43 knots (35 to 50 mph) were noted over the remainder of southeast and south-central Wisconsin south of Interstate 94 and east of Interstate 90, resulting in many small branches breaking off of trees. The combination of severe thunderstorms followed by high winds resulted in 18,000 customers losing electrical power in the counties of Racine and Kenosha. About 200 lines were down either due to the winds or lightning.





June 2002 Time Local/ Standard Path Length (Miles) Path Width (Yards) Number of Persons Killed Injured Estimated Damage Property Crops

WISCONSIN, Southea	<u>st</u>					
Lafayette County 3 E Darlington to 3 SE Darlington	04	1100CST 1230CST	0	0	5K	Flash Flood
	Highw There v The Da	tial rainfalls associated with slow-moving tay 81 east of Darlington. The road was blo were several reports of mud and gravel was arlington Wastewater treatment plant meas ast in Monroe (Green Co.), the treatment plant	cked off as a hed down froured 3.97 in	n precaution om drivewa nches of rain	ary measure due to ys onto roads in the n during the morn	high water levels on the local river. e Darlington area east to Green County. ing and early afternoon hours. Further
Racine County Racine		1100CST ing struck near an unoccupied home in the omes siding and electrical wiring were dama		0 of the city of	5K of Racine and trave	Lightning eled through power lines into the home.
Rock County	THE HO	mies siding and electrical wiring were dama	igeu.			
3.5 SE Clinton	10	1815CST	0	0		Thunderstorm Wind (G56)
Walworth County Sharon to Walworth	10	1817CST 1825CST	0	0		Thunderstorm Wind (G56)
Rock County 2 E Edgerton	10	1820CST	0	0		Thunderstorm Wind (G56)
Jefferson County 3.2 NE Concord	10	1915CST	0	0		Thunderstorm Wind (G52)
Milwaukee County Milwaukee	10	1930CST 2100CST	0	0		Urban/Sml Stream Fld
Waukesha County Sussex	10	1936CST	0	0		Thunderstorm Wind (G56)
Milwaukee County Greendale	10	1940CST	0	0		Hail(0.75)
Milwaukee County Greendale to Shorewood	10	1950CST 2005CST	0	0		Thunderstorm Wind (G56)
	souther	red, evening, severe thunderstorms with dar ast Wisconsin. The powerful winds topple d in urban floodiing on the southwest side n roads. About 4,000 homes in Jefferson ar	ed trees who	ich pulled of Milwauke	down power lines. e around 76th and	In addition, brief, torrential rainfalls Oklahoma, where water was 10 inches
Dane County 3 WSW Mazomanie		0400CST rous large trees were uprooted by a very local county. The pulse-type storms quickly dimensional county.				
Washington County West Bend to Jackson	15	1326CST 1330CST	0	0		Hail(0.75)
Fond Du Lac County Fond Du Lac	15	1358CST 1400CST	0	0		Hail(0.75)





Location I	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed		Estimated Damage Property Crops	June 2002 Character of Storm
WISCONSIN, Southeast								
Milwaukee County Timmerman Arpt	15	1559CST			0	0		Hail(0.75)
Milwaukee County 3 N General Mitchell Arj	15	1623CST			0	0		Hail(0.75)
Racine County 1 N Racine	15	1627CST			0	0		Hail(0.88)
Milwaukee County 3.7 SW General Mitchell	15	1629CST			0	0		Hail(0.75)
Milwaukee County Oak Creek	15	1632CST			0	0		Hail(0.75)
		1707CST ed severe thunder rman Field on the					umping large hail. T	Hail(0.75) The ground was covered white around
Sun Prairie	16	1845CST 1850CST			0	0		Thunderstorm Wind (G52)
	Several	large trees were	toppled by po	werful straig	tht-line win	ds as an is	olated severe thunder	storm moved through Dane County.
Marquette County 5 E Endeavor	21	1615CST			0	0		Hail(0.75)
Columbia County Marcellon	21	1640CST			0	0		Funnel Cloud
Columbia County 1 N Friesland	21	1705CST			0	0		Hail(0.75)
Sauk County 4 NW Rock Spgs	21	1705CST			0	0		Hail(0.75)
	21	1719CST			0	0		Hail(0.75)
	21	1725CST			0	0		Thunderstorm Wind (G65)
Dodge County 2 SW Fox Lake	21	1745CST			0	0		Thunderstorm Wind (G56)
Sauk County Rock Spgs	21	1748CST			0	0		Hail(0.75)
	downbu blew it Dopple Columb	onto a road. So r radar system, a	ne winds and outhwest of I decent mesod orthwest Dod	I large hail. Fox Lake the cyclone was a lige County.	Just west of winds ble evident with The lack of	of Fox Lal w down h a thunde f low leve	(Dodge Co.), the pecounty road signs. County that moved so	Hail(0.75) al and southeast Wisconsin, producing sowerful winds demolished a shed and On the Milwaukee-Sullivan WSR-88D utheast across the far northwest part of f this storm may have played a part in
Green Lake County 5 W Fairburn to	22	0300CST			0	0	10K	Flash Flood





		Time Local/	Path Length	Path Width		Number of Persons		nated nage		June 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

WISCONSIN, Southeast

Marquette County
5.5 WSW Neshkoro

22 0300CST 0 0 10K Flash Flood

At least 3 lines of thunderstorms with heavy rains sagged south into the northern parts of Marquette and Green Lake counties during the overnight hours. Individual thunderstorm cells trained west to east, ultimately resulting in flash flooding which caused gravel shoulder washouts on some roads as well as road closures. WSR-88D Doppler radar estimated that 5 to 6 inches of rain fell between 2100CST on August 21st through about 0300CST on August 22nd. Further north, 8 to 15 inches were reported in parts of Juneau, Adams, Waushara, Wood, and Portage counties! Refer to the StormData reports produced by WFO La Crosse and WFO Green Bay for detailed flash flood information for central and northeastern Wisconsin, respectively.

WIZ066 Milwaukee

22 1100CST 1 0 Excessive Heat 1800CST

A 43-year old man was found dead on the steps of a Milwaukee church with a body temperature of 111. Heat was the primary cause of death based on medical reports (death is directly related to heat). The maximum air temperature was only in the lower 90s across the city of Milwaukee, with General Mitchell Field registering 91. Heat Index values were in the 95 to 100 range. The morning low at Mitchell Field was 63. Normal highs and lows for June 22nd are 78 and 58. M43OU

WIZ071 Racine

23 1100CST 0 0 Excessive Heat

A 37-year-old women died in her apartment after her body temperature reached 109 degrees. Medical reports indicated that heat was a secondary cause of death (indirectly-related to heat). Maximum air temperatures in Racine ranged from 90 to 91, after overnight lows around 68. Heat indices were in the 95 to 100 degree range. June 23rd was the second of four consecutive days with maximum readings in the lower 90s across southeast and south-central Wisconsin, or about 12 to 15 degrees above normal.

Columbia County

Pardeeville 26 0300CST 0 0 100K Lightning

Lightning struck a home in Pardeeville, starting a fire that gutted the 2nd floor. It traveled down to the 1st floor and blew out the front door's frame, blew out light switches, and knocked pictures off walls.